



Jessica McCarty-Kern

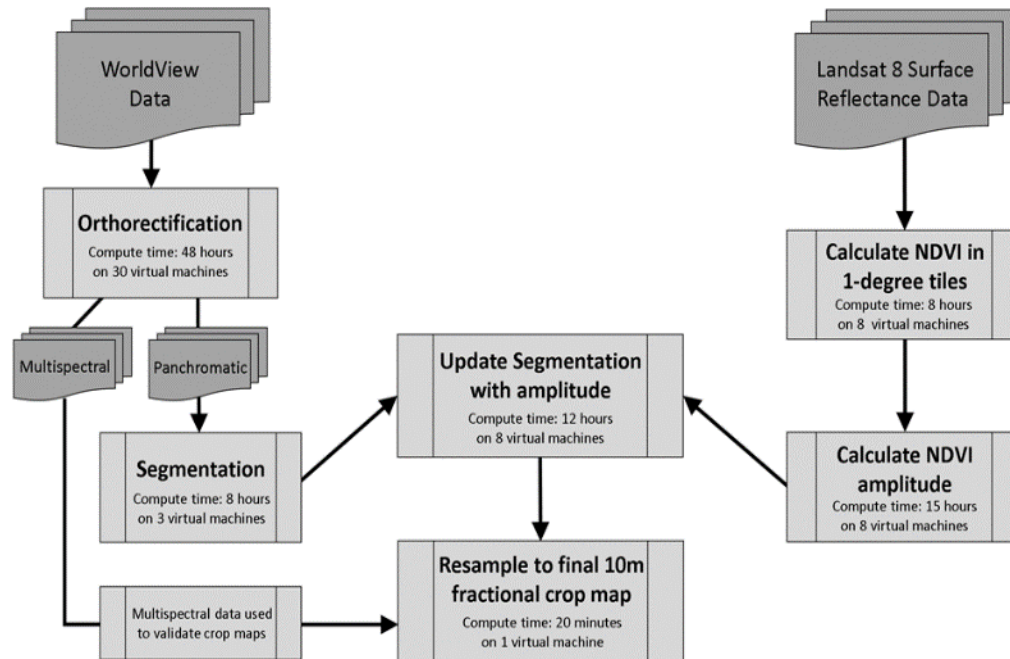
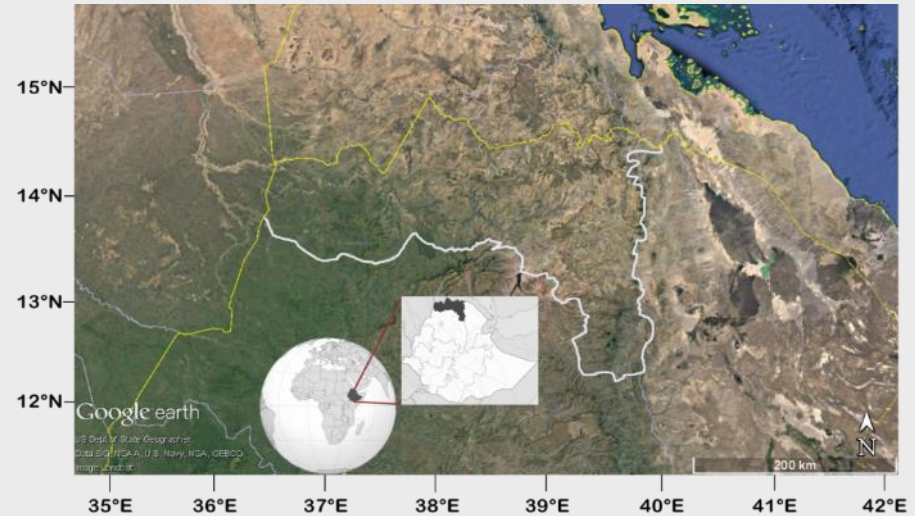


## Mapping Small(holder) Farms Using Big Data

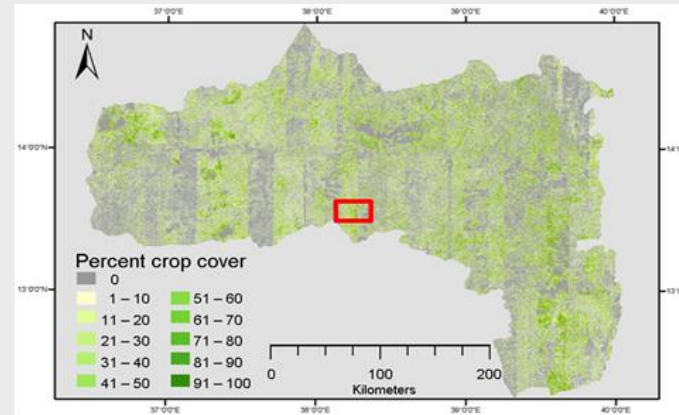
Globally sub-hectare fields/food production critical to food security.

Over 2,700 VHR WorldView-1, -2 images, ~ 4 TB of data.

Advanced Data Analytics Platform (ADAPT) at NASA GSFC's NCCS in 1 week  
(<http://www.nccs.nasa.gov/services/adapt>).

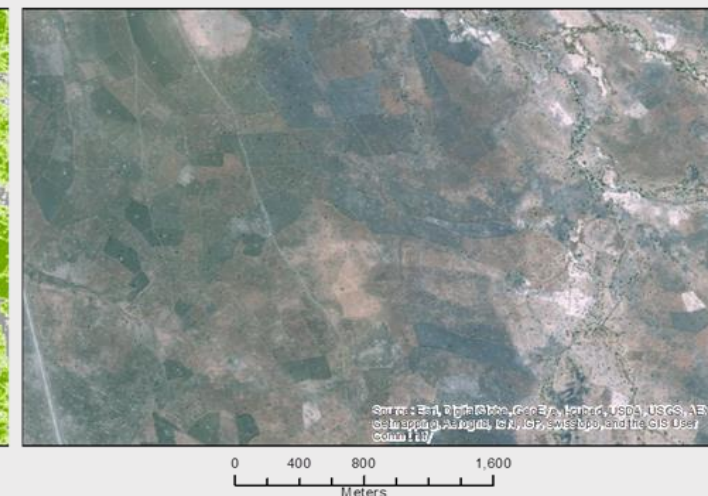
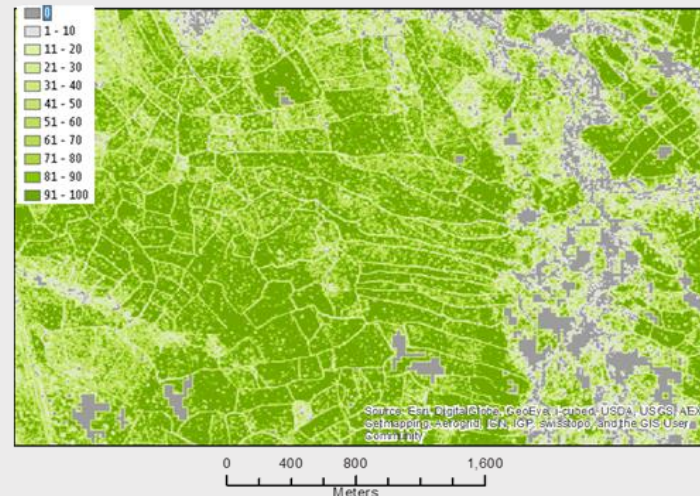


## Scholarly Contributions



Percent crop at 10m

RGB imagery from ArcGIS



McCarty, J.L., Neigh, C.S.R., Carroll, M.L., & Wooten, M.R. (2017). Extracting smallholder cropped area in Tigray, Ethiopia with wall-to-wall sub-meter WorldView and moderate resolution Landsat 8 imagery *Remote Sensing of Environment*, in revision.